PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 279/04187	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.	
International application No. PCT/IL04/00903	International filing date (day/month/year) 28 September 2004 (28.09.2004)	(Earliest) Priority Date (day/month/year) 29 September 2003 (29.09.2003)
Applicant BAMBOO MEDIACASTING LTD.		
applicant according to Article 18. A co	n prepared by this International Searching appy is being transmitted to the International of a total of	Bureau.
	e international search was carried out on the bunless otherwise indicated under this item.	pasis of the international application in the
<u> </u>	I search was carried out on the basis of a tran ority (Rule 23.1(b)).	slation of the international application
b. With regard to any nucleot	ide and/or amino acid sequence disclosed in	the international application, see Box No.
	i unsearchable (See Box No. II)	
Unity of invention is lacki With regard to the title,	ng (See Box No. III)	
the text is approved as subm	nitted by the applicant. d by this Authority to read as follows:	
	,	
	•	
5. With regard to the abstract,		
the text is approved as subr		
	d, according to Rule 38.2(b), by this Authori one month from the date of mailing of this in	
6. With regard to the drawings, a. the figure of the drawings to be	published with the abstract is Figure No. 1	
as suggested by the	••	_
==	Authority, because the applicant failed to sug Authority, because this figure better characte	
as selected by this	•	

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00903

Roy IV	TEXT OF THE ABS	TRACT	(Continuation of	Item 5 of the	first sheet)
TOYIA	TEAL OF THE AD	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Comminging or	ILCIII D OI UIC	un ar ameer)

of the data file; and attempting to delivery the data file to the determined receivers (20).

A method of multicasting a data file. The method includes transmitting a notification on an upcoming multicast transmission to a plurality of receivers (20) designated to receive the multicast transmission, tuning by at least one of the plurality of receivers (20) to one or more multicast channels, responsive to the notification, transmitting a data file, from a data server (42), on the one or more multicast channels, without the data server (42) receiving acknowledgments from the receivers (20) on whether they received the notification, determining receivers (20) designated to receive the multicast transmission that did not receive at least a portion

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00903

IPC(7) US CL	SSIFICATION OF SUBJECT MATTER : H04L 12/28, 12/56; H04H 1/00 : 370/390, 312, 432				
	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
	ocumentation searched (classification system followed	by classification symbols)			
	70/390, 312, 432, 391, 392, 389, 328, 329, 230, 231				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic da EAST	ata base consulted during the international search (name	me of data base and, where practicable, so	earch terms used)		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
Х	US 2002/0038441 A1 (EGUCHI et al) 28 March 20	002 (28.03.2002), see entire document.	1-2,4-6,31-36,66- 73,83-90		
Y Y	US 2003/0007499 A1 (RAJAHALME) 09 January :	2003 (09 01 2003) see entire	3,7-30,37-82 3,11-18,19-30,37-82		
	document.				
Y	US 2003/0100325 A1 (PAILA et al) 29 March 2003	3 (29.03.2003), see entire document.	7-30		
Y	US 2003/0046539 A1 (NEGAWA) 06 March 2003	(06.03.2003), see entire document.	19-30,37-65,74-78		
Further	r documents are listed in the continuation of Box C.	See patent family annex.			
• S	pecial categories of cited documents:	"T" later document published after the inter date and not in conflict with the applica-			
	t defining the general state of the art which is not considered to be ular relevance	principle or theory underlying the invent. "X" document of particular relevance; the	ntion		
"E" carlier ap	oplication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone			
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is		
"O" document	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the			
	published prior to the international filing date but later than the late claimed	"&" document member of the same patent f	amity		
	octual completion of the international search	Date of mailing of the international sear	ch report		
	99 February 2005 (09.02.2005) 2 3 MAR 2005				
Mai Con P.O	ailing address of the ISA/US il Stop PCT, Attn: ISA/US rumissioner for Patents 0. Box 1450 xandria, Virginia 22313-1450	Authorized officer Brian Nguyen Telephone No. (571) 2/2-30/4	, zogar		
	o. (703) 305-3230	/			

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
PAUL FENSTER
FENSTER & COMPANY, INTELLECTUAL PROPERTY
2002 LTD.
P.O. BOX 10256
PETACH TIKVA, ISRAEL 49002

PCT

2002 LTD. P.O. BOX 10256 PETACH TIKVA, ISRAEL 49002		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)				
		4.		Date of mailing (day/month/year)	23 MAR 2005	
Applicant'	's or agent's file r	eference		FOR FURTHER		
279/04187	1				See paragraph 2 below	
Internation	al application No).	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/IL04			28 September 2004 (28.	09.2004)	29 September 2003 (29.09.2003)	
Internation	nal Patent Classifi	cation (IPC)	or both national classificat	lion and IPC		
	04L 12/28, 12/56	; H04H 1/00	and US Cl.: 370/390, 31	2, 432		
Applicant						
BAMBOO	MEDIACASTI	NG LTD.				
1. This o	opinion contains i	ndications rel	ating to the following iten	ıs:		
\boxtimes	Box No. I	Basis of the	e opinion			
	Box No. II	Priority				
	Box No. III	Non-establi	shment of opinion with re	gard to novelty, inve	entive step and industrial applicability	
	Box No. IV	Lack of uni	Lack of unity of invention			
	Box No. V			is.1(a)(i) with regard to novelty, inventive step or industrial ions supporting such statement		
	Box No. VI	Certain doc	numents cited			
\boxtimes	Box No. VII	Certain def	ects in the international ap	application		
	Box No. VIII	Certain obs	ervations on the internation	tional application		
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
	mailing address		S	Authorized office		
	Mail Stop PCT, Atta Commissioner for P			Brian Nguyen	Vugania Solar	
l l	Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Brian Nguyen Telephone No. (571) 272-3044					
	Facsimile No. (703) 305-3230			711) #12-3UPT		

Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.
PCT/IL04/00903

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

International application No. PCT/IL04/00903

Statement			
Novelty (N)	Claims	3,7-30,37-82	YE
		1,2,4-6,31-36,83-90	NONO
Inventive step (IS)	Claims	NONE	YE
inventive step (13)	Claims		NO
* * * * * * * * * * * * * * * * * * *	Chima		YE
Industrial applicability (IA)	Claims Claims	NONE	NO
Citations and explanations:			
ase See Continuation Sheet			
•			

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No.

PCT/II.04/00903

INTERNATIONAL SEARCHING AUTHORITI	PC 1/1L04/00903
Box No. VII Certain defects in the international application	
The following defects in the form or contents of the international application	tion have been noted:
Claim 42 objected to under PCT Rule 66.2(a)(iii) as coreaining the following defined by dependent on claim 41.	
should be dependent on claim 41.	
	•

International application No. PCT/IL04/00903

In case the space in any of the preceding boxes is not sufficient.
V. 2. Citations and Explanations: Claims 1-2, 4-6, 31-36, and 83-90 lack novelty under PCT Article 33(2) as being anticipated by Eguchi et al (2002/0038441). Regarding claims 1-2, 4-6, 31-36, 83-90, Eguchi discloses a method for multicasting a data file comprising transmitting a notification (announcement) on an upcoming multicast transmission to a plurality of receivers (clients) designated to receive the multicast transmission; tuning by at least one of the receivers to one or more multicast channels, responsive to the notification (see paragraphs 0061-0062); Transmitting a data file, from a data server (server), on the one or more multicast channels, without the data server receiving acknowledgement from the receivers on whether they received the notification (see paragraphs 0064-0065); determining receivers designated to receive the multicast transmission that did not receive at least a portion of the data file; and attempting to deliver the data file to the determined receivers (see paragraph 0011).
Claims 3 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi in view of Rajahalme (2003/007499). Regarding claims 3 Eguchi does not specifically disclose unicast communication. However, Rajahalme discloses determining whether to use multicast, unicast, or a combination (see abstract and paragraph 0004). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to determine whether to use multicast or unicast as taught by Rajahalme in the system of Eguchi in order to effectively use of system bandwidth.
Claims 7-10 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi in view of Paila et al (2003/0100325). Regarding claims 7-10, Eguchi does not specifically disclose determining whether to tune onto the one or more multicast channels. However, Paila discloses this limitation (see paragraph 0015). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to tune onto a multicast channel as taught by Paila in the system of Eguchi in order to control the receiving of the multicast channels.
Claims 11-18 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi in view of Rajahalme (2003/007499) and Paila et al (2003/0100325). Regarding claims 11-18, Eguchi discloses all the claimed subject matter as described in previous paragraph except for the use of unicast and determine whether to tune onto the multicast channels. However, Rajahalme discloses multicasting (see abstract and paragraph 0004) and Paila discloses determine whether to tune onto the multicast channels (see paragraph 0015). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the techniques as taught by Rajahalme and Paila in the system of Eguchi in order to meet specific needs.

Claims 19-30 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi in view of Rajahalme (2003/007499) and

Regarding claims 19-30, Eguchi discloses all the claimed subject matter as described in previous paragraph except for the use of unicast, determine whether to tune onto the multicast channels, and encryption/decryption. However, Rajahalme discloses multicasting (see abstract and paragraph 0004) and Paila discloses determine whether to tune onto the multicast channels (see paragraph 0015) and Negawa discloses encryption/decryption (see abstract). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the techniques as taught by Rajahalme and Paila and Negawa in the system of Eguchi in

Paila et al (2003/0100325) and Negawa (2003/0046539).

International application No. PCT/IL04/00903

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

order to meet specific needs.

Claims 37-65 and 74-78 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi in view of Rajahalme (2003/007499) and Negawa ((2003/0046539).

Regarding claims 37-65, Eguchi discloses a method of receiving a data file provided in a multicast transmission (see paragraph 0061-0062 and 0064-0065). Eguchi does not specifically disclose a mobile station or encryption/decryption. However, Rajahalme discloses a mobile station (see paragraph 0015) and Negawa discloses encryption/decryption (see abstract). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the techniques as taught by Rajahalme and Negawa in the system of Eguchi in order to meet specific needs. Note that encrypting or not encrypting and providing decryption keys before or after transmitting encrypted file are the matter of choice.

Regarding claims 74-78, Eguchi discloses a method of receiving a data file provided in a multicast transmission including the use of IP address (see figure 1; paragraph 0061-0062 and 0064-0065). Eguchi does not specifically disclose a mobile station or encryption/decryption. However, Rajahalme discloses a mobile station (see paragraph 0015) and Negawa discloses encryption/decryption (see abstract). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the techniques as taught by Rajahalme and Negawa in the system of Eguchi in order to meet specific needs.

Claims 66-73 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi (2002/0038441).

Regarding claims 66-73, Eguchi discloses a method for transmitting multicast data as described in previous paragraph including a reception rate (see paragraph 0051 and 0062). Eguchi does not specifically disclose the reception rate of the multicast data lower than 100%. However, it is obvious that the reception rate of the multicast data will be less than 100% because some data could be lost during transmission.

Claims 79-82 lack an inventive step under PCT Article 33(3) as being obvious over Eguchi (2002/0038441) in view of Rajahalme (2003/0007499).

Regarding claims 79-82, Eguchi discloses a method of transmitting multicast data in a cellular network as described in previous paragraph and Rajahalme discloses multicast delivery in a communication network comprises a mobile station and a base station as shown in figure 1. Eguchi in view of Rajahalme does not specifically disclose dropping data by one or more of the base stations based on the allocated bandwidth. However, dropping data to meet the bandwidth limitation is well known in the art. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to drop data in order to keep the bandwidth usage under control.